

INTERNATIONAL SEARCH REPORT

International Application No
EP2004/007950

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F04B13/00 B01F15/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 F04B B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 789 510 A (MEYNIG, ROBERT E.) 23 April 1957 (1957-04-23) column 1, line 15 - line 21 column 1, line 61 - column 2, line 15 column 2, line 63 - column 3, line 31 figures 1,2 -----	1-3,5, 11-13
X	US 2 594 577 A (MCFARLAND, ARTHUR E.) 29 April 1952 (1952-04-29) column 1, line 6 - line 11 column 2, line 16 - line 51 figure 1 -----	1,2, 11-13
A	WO 02/23138 A (BP OIL INTERNATIONAL LTD. (GB)) 21 March 2002 (2002-03-21) page 1, line 3 - line 10 page 13, line 29 - page 14, line 29 figure 1 -----	1,2
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the International search 22 September 2004	Date of mailing of the International search report 30/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gnüchtel, F

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/05940 A (INNOVACION TECNOLOGICA CATALANA, S.L. (ES)) 24 January 2002 (2002-01-24) page 1, line 3 - line 9 page 5, line 3 - page 7, line 19 figures 1,2 -----	1,2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007950

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2789510	A 23-04-1957	NONE		
US 2594577	A 29-04-1952	NONE		
WO 0223138	A 21-03-2002	AU 8235601 A		26-03-2002
		EP 1317658 A1		11-06-2003
		WO 0223138 A1		21-03-2002
		US 2003189063 A1		09-10-2003
WO 0205940	A 24-01-2002	ES 1046844 U1		01-02-2001
		AT 268215 T		15-06-2004
		AU 6936401 A		30-01-2002
		DE 60103643 D1		08-07-2004
		EP 1301266 A1		16-04-2003
		WO 0205940 A1		24-01-2002
		US 2004035886 A1		26-02-2004